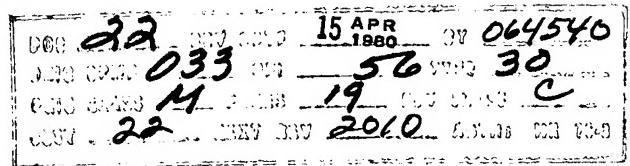


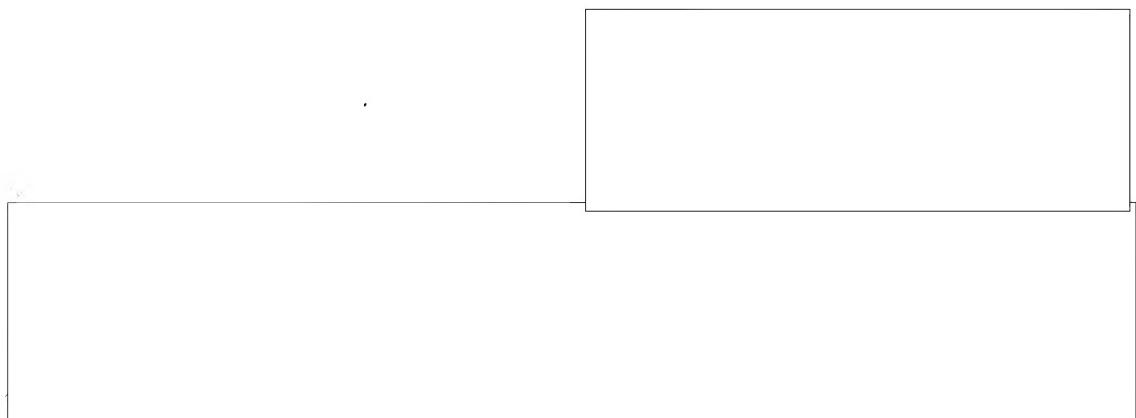
CONFIDENTIAL



FINAL TEST DATA
ON
CR-17 FOUR BAND
COLLECTION RECEIVER

REPORT NO. 7630-F2
AUGUST 1960

25X1



25X1

CONFIDENTIAL

CONFIDENTIAL

FINAL TEST DATA ON CR-17
FOUR BAND COLLECTION RECEIVERS

The CR-17 receivers, Serial numbers 1 and 2, were aligned and checked. They were then operated for about two weeks with occasional checks being made on sensitivity, gain, and bandwidths. At the end of this life test point by point measurements were made of the various bandwidths and sensitivities. Dynamic ranges and compression characteristics were also checked. The results of these measurements are presented in the following tables and curves.

CONFIDENTIAL

CONFIDENTIAL

REQUIRED RF INPUT LEVELS
 FOR TANGENTIAL OUTPUT SIGNAL
 CR-17 FOUR BAND COLLECTION RECEIVER
 SERIAL 1

BAND 1
 VIDEO GAIN
 38-40 db

BAND 2
 VIDEO GAIN
 28-40 db

<u>Frequency Mc</u>	Signal Level For Tangential Output (uV)		<u>Frequency MC</u>	Signal Level For Tangential Output (uV)	
	200	100		135	70
	11	6		12	6
	10.5	5		12	6
	9.5	5		12	6
	10	5		13	7
	10	5		11	6
	10	5		11.5	6
	10	5		12	6
	9.5	5		12	6
	200	100		70	35

CONFIDENTIAL

CONFIDENTIAL

BAND 3
VIDEO GAIN
38-40 db

BAND 4
VIDEO GAIN
38-40 db

<u>Frequency</u> <u>MC</u>	<u>Signal Level</u> <u>For Tangential</u> <u>Output (uV)</u>		<u>Frequency</u> <u>MC</u>	<u>Signal Level</u> <u>For Tangential</u> <u>Output (uV)</u>	
	50	25		300	150
	14	7		18	9
	14	7		13.5	7
	15	7.5		13	7
	14	7		14	7
	14	7		15	8
	14	7		14	7
	12	6		15	8
	12	6		14	7
	60	30		32	16

CONFIDENTIAL

CONFIDENTIAL

COMPRESSION CHARACTERISTICS

CR-17 FOUR BAND COLLECTION RECEIVER

SERIAL 1

BAND 1

BAND 2

<u>Scope Gain For Const. Deflection mv/cm</u>	<u>Input Attenuation db</u>	<u>Scope Gain For Const. Deflection mv/cm</u>	<u>Input Attenuation db</u>
1	62	1	62
2	59	2	60
5	54	5	56
10	50.5	10	52
20	46.5	20	48
50	36	50	37
50	20	50	20

BAND 3

BAND 4

1	62	1	62
2	59	2	59
5	54	5	55
10	50.5	10	51
20	46	20	47
50	35	50	34
50	20	50	20

CONFIDENTIAL

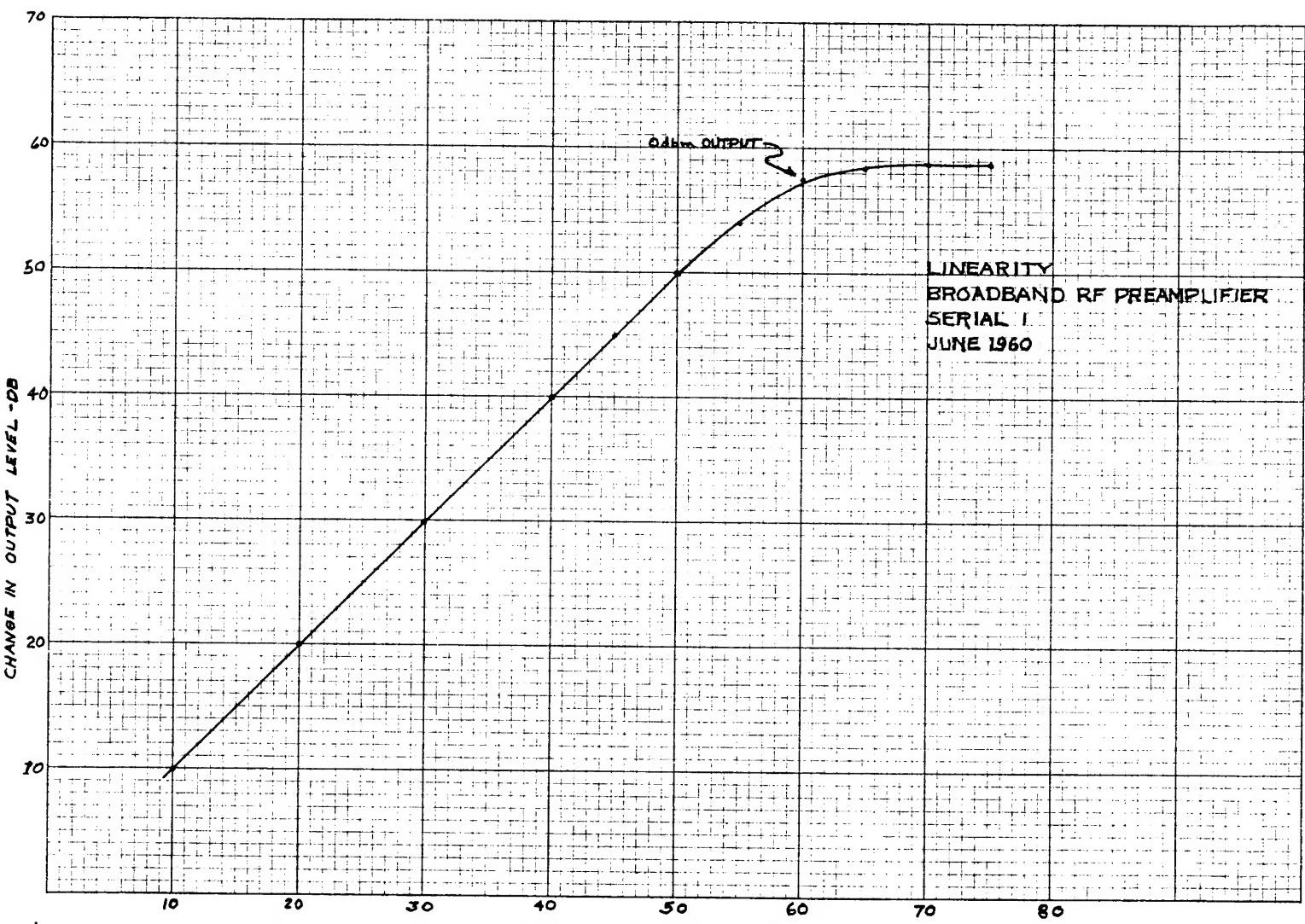
STAT

Declassified in Part - Sanitized Copy Approved for Release 2012/01/04 : CIA-RDP78-03424A001200010005-4

Page Denied

Declassified in Part - Sanitized Copy Approved for Release 2012/01/04 : CIA-RDP78-03424A001200010005-4

Declassified in Part - Sanitized Copy Approved for Release 2012/01/04 : CIA-RDP78-03424A001200010005-4



Declassified in Part - Sanitized Copy Approved for Release 2012/01/04 : CIA-RDP78-03424A001200010005-4

Page Denied

Next 3 Page(s) In Document Denied

REQUIRED RF INPUT LEVELS
FOR TANGENTIAL OUTPUT SIGNAL,
CR-17 FOUR BAND COLLECTION RECEIVER
SERIAL 2

CH 1
VIDEO GAIN
(38-40db)

CH 2
VIDEO GAIN
(38-40 db)

Signal Level
For Tangential
Output (uV)

Signal Level
For Tangential
Output (uV)

<u>f</u>	
35	28
6.5	5.6
5.5	5.3
6	6
5	5.5
6	6.2
6	6.2
6	5.5
6	5.5
20	18

<u>f</u>	
	210
	9.5
	6
	6.8
	7
	6.2
	7.2
	6.2
	7
	6.3

STAT
STAT

CH 3
VIDEO GAIN
(38-40 db)



<u>Signal Level For Tangential Output (uV)</u>
150
23
6.8
6.8
7
7
7
7
6.8
11
70
1K

CH 4
VIDEO GAIN
(38-40 db)



<u>Signal Level For Tangential Output (uV)</u>	
100	
7.5	
5	STAT
5	
5.8	
4.6	
4.6	STAT
4.6	
4.6	
32	

COMPRESSION CHARACTERISTICS

CR-17 FOUR BAND COLLECTION RECEIVER

SERIAL 2

BAND 1

BAND 2

<u>Scope Gain For Const. Deflection mv/cm</u>	<u>Input Attenuation db</u>	<u>Scope Gain For Const. Deflection mv/cm</u>	<u>Input Attenuation db</u>
1	62	1	62
2	59	2	60
5	54	5	56
10	50.5	10	52
20	46.5	20	48
50	36	50	37
50	20	50	20

BAND 3

BAND 4

1	62	1	62
2	59	2	59
5	54	5	55
10	50.5	10	51
20	46	20	47
50	35	50	34
50	20	50	20

DEFLECTION REFERENCE - 3.2 cm

STAT

Declassified in Part - Sanitized Copy Approved for Release 2012/01/04 : CIA-RDP78-03424A001200010005-4

Page Denied

Next 5 Page(s) In Document Denied

Declassified in Part - Sanitized Copy Approved for Release 2012/01/04 : CIA-RDP78-03424A001200010005-4